Weather & Climate

* How do the physical features of Atlantic Canada, specifically elevation, affect the precipitation/condensation?

Physical features, latitude, and elevation can affect the amount and types of precipitation Atlantic Canada experiences. Physical features such as ponds, lakes, and ocean provide a source of moisture for cloud development. Mountains, hills, and valleys vary in elevation. Increasing elevation causes air to rise, cool, and condense into clouds. Clouds are the source of precipitation such as rain and snow. Precipitation falling at high elevation cools quickly and forms snow.

* How does the location of Atlantic Canada affect the winds experienced here?

Wind influences when and where precipitation will occur. Winds in the northern hemisphere blow counterclockwise into a low pressure area. They blow clockwise out of a high pressure area. When extreme high pressure air and extreme low pressure air collide, strong winds can be created.

Weather & Climate

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* How does the location of Atlantic Canada affect the winds experienced here?

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C. Map - Skills

Use page 35to help you answer the following questions in complete sentences.

1. Which Atlantic Canadian province has the highest elevation?

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2. Which Atlantic Canadian province has the lowest elevation?

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3. Which part of Nova Scotia has the highest elevation?

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4. Which part of New Brunswick has the highest elevation?

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5. Where in Atlantic Canada would expect to see orographic condensation?

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6. How would the air move at the North Pole if the Earth did not rotate?

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7. How would the air move at the Equator if the Earth did not rotate?

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Glossary - Weather & Climate

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| Term | Definition |
| climate |  |
| Gulf Stream |  |
| The Labrador Current |  |
| weather |  |
| Continental Arctic |  |
| Maritime Polar |  |
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Glossary - Weather & Climate

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